

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Please amend Claims 1-7, and 9-15, and add Claim 16 as follows:

Listing of Claims

Claim 1 (currently amended): A method of manufacturing a ~~mould~~mold for producing a customized optical surface, whereby a ~~mould~~mold having a base shape is modified to obtain the required shape of the ~~mould~~mold surface, ~~characterized in that~~wherein use is made of a photolithographic process, comprising the steps of

- providing the ~~mould~~mold surface with photoresist layer;
- exposing the photoresist layer to a predetermined pattern of exposure radiation during a predetermined time, and

- developing the photoresist layer, thereby selectively removing photoresist material according to the radiation pattern and shaping the exposed surface of the layer to the required end shape of the ~~mould~~mold,

Claim 2 (currently amended): A method as claimed in claim 1, ~~characterized in that~~wherein use is made of a negative- photoresist layer.

Claim 3 (currently amended): A method as claimed in claim 1 , ~~characterized in that~~wherein the ~~mould~~mold is made of a material that is transparent to the exposure radiation.

Claim 4 (currently amended): A method as claimed in claim 1, ~~characterized in that~~wherein the ~~mould~~mold is made of a plastic material.

Claim 5 (currently amended): A method as claimed in claim 2, ~~characterized in that~~wherein the photoresist layer is exposed via the ~~mould~~mold.

Claim 6 (currently amended): A method of manufacturing a composed ~~mould~~mold for producing a contact lens, which composed ~~mould~~mold comprises a first and a second ~~mould~~mold for forming a first surface and a second surface, respectively of the contact lens, ~~characterized in that~~wherein each of the ~~mould~~molds is manufactured by the method as claimed in claim 1.

Claim 7 (currently amended): A method of manufacturing a contact lens comprising a first, concave, surface and a second, convex, surface, which method comprises the steps of:

- providing a composed ~~mould~~mold comprising a first ~~mould~~mold having a surface, which is the negative of the first lens surface, and a second ~~mould~~mold having a surface, which is the negative of the second lens surface;
- filling the space between the ~~mould~~mold surface with a polymer material;
- exposing the polymer material to UV radiation thereby hardening the material and shaping it to a lens

having the said first and second surface, ~~characterized~~
~~in that~~wherein use is made of a composed ~~mould~~mold
manufactured according to the method of claim 6.

Claim 8 (original): A contact lens manufactured by
means of the method claim 7.

Claim 9 (withdrawn, currently amended): A device for
performing the exposure step of the method of claim 1,
~~characterized in that~~wherein it comprises in this
order:

- a radiation source emitting UV radiation;
- optical means for concentrating the emitted
radiation in an exposure beam;
- a spatial light modulator for imparting to the
exposure beam a radiation distribution according to the
said predetermined pattern, and
- a ~~mould~~mold holder arranged in the path of the
radiation from the spatial light modulator for holding
the ~~mould~~mold to be exposed.

Claim 10 (currently amended): ~~A The device as claimed~~
~~inof~~ claim 916, ~~characterized in that~~wherein the
spatial light modulator is ~~one of the types~~a liquid
crystal display (LCD), digital mirror device ~~and or~~
deformable mirror device.

Claim 11 (currently amended): ~~A The device as claimed~~
~~inof~~ claim 916, ~~characterized in that~~wherein an optical
projection system is arranged between the spatial light
modulator and the ~~mould~~mold holder.

Claim 12 (currently amended): ~~A The device as claimed~~
~~inof~~ claim 916, ~~characterized that~~wherein the ~~mould~~mold
holder and the spatial light modulator are arranged
close to each other without intervening optical means
between them.

Claim 13 (currently amended): ~~A The device as claimed~~
~~inof~~ claim 916, ~~characterized in that~~wherein a diffuser
element is arranged in the path of the exposure beam
between the spatial light modulator and the ~~mould~~mold
holder.

Claim 14 (currently amended): ~~A The device as claimed~~
~~in~~of claim 916, ~~characterized in that~~wherein the
~~mould~~mold holder is arranged at such distance from the
projection system that the photoresist layer on the
~~mould~~mold to be exposed is outside the focus plane of
the projection system.

Claim 15 (currently amended): ~~A The device as claimed~~
~~in~~of claim 916, ~~characterized in that~~wherein the
spatial light modulator is coupled to a computer-,
which supplies data about the exposure pattern to be
formed in the photoresist layer.

Claim 16 (new): A device for exposing, to a
predetermined pattern of exposure radiation during a
predetermined time, a photoresist layer on a mold
surface of a mold having a base shape, the device
comprising:

a radiation source emitting UV radiation,

optical means for concentrating the emitted radiation in an exposure beam in a photolithographic process,

a spatial light modulator configured to impart to the exposure beam a radiation distribution according to the predetermined pattern and render the photoresist layer developable to selectively remove photoresist material according to the radiation pattern and shape the exposed surface of the layer to a required end shape of the mold, and

a mold holder arranged in the path of the radiation from the spatial light modulator for holding the mold to be exposed,

whereby the base shape of the mold is modified to obtain the required shape of the mold surface.